



SAFETY DATA SHEET

PRODUCT NAME: n-Propanol

Issue Date: September 24

SECTION 1 IDENTIFICATION

Product Name: n-Propanol
Other Names: Propyl alcohol, 1-Hydroxypropane, 1-Propanol, 1-Propyl alcohol, Ethyl carbinol, n-Propan-1-ol, n-Propanol, n-Propyl alcohol, Optal, Osmosol Extra
Product Code: CNP20
Uses: Industrial Solvent, Intermediate, Lubricant
Supplier: HamChem Hamilton Chemicals Ltd, 75 Ruffell Rd, Hamilton
Phone: 07 974 4971 Email: info@hamchem.nz Web: www.hamchem.nz

- In emergency dial 111, and then ask for Fire, Ambulance or Police as necessary.
- In case of poisoning phone National Poisons Centre – 0800 764 766

SECTION 2 HAZARD IDENTIFICATION



GHS Classifications

Flammable Liquid – Category 2
Acute Toxicity (Oral) – Category 4
Eye Irritation – Category 2

Signal Word: DANGER

Hazard Statements

H225 Highly flammable liquid and vapour
H302 Harmful if swallowed
H319 Causes serious eye irritation

Prevention

Keep away from children
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed
P240 Ground and bond container and receiving equipment
P241 Use explosion-proof electrical/ventilating/lighting equipment
P242 Use non-sparking tools
P243 Take action to prevent static discharges
P264 Wash hands thoroughly after handling
P270 Do not eat, drink or smoke while using this product
P280 Wear protective gloves/clothing and eye/face protection.

Response

P301+P312 IF SWALLOWED: Call a POISON CENTRE or Doctor if you feel unwell
P330 Rinse mouth

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P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower and soap if available.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

P370+P378 In case of fire: use alcohol resistant foam or fine water spray/water fog.

Storage

P403+P235 Store in a well-ventilated place. Keep cool.

Disposal

P501 Dispose of contents/container to approved waste facility in accordance with local regulations

SECTION 3 COMPOSITION & INFORMATION ON INGREDIENTS

Chemical Entity	CAS No.	Proportion (%)
n-Propanol	71-23-8	>99.8%

SECTION 4 FIRST AID MEASURES

For advice, contact a Poisons Information Centre (0800 764 766) or a Doctor.

If swallowed: Rinse mouth with water. If swallowed do NOT induce vomiting. Give a glass of water. Seek medical advice.

If on skin: If skin contact occurs, remove contaminated clothing and wash skin with running water. If irritation occurs, seek medical advice.

If inhaled: Remove victim from area of exposure – avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. If patient finds breathing difficult and develops a bluish discolouration of the skin (which suggest a lack of oxygen in the blood – cyanosis), ensure airways are clear of any obstruction and have a qualified person give oxygen through a face mask. Apply artificial respiration if patient is not breathing. Seek medical advice.

If in eyes: Immediately wash in and around the eye area with large amounts of water for at least 15 minutes. Eyelids to be held apart. Remove clothing if contaminated and wash skin. Urgently seek medical assistance. Transport promptly to hospital or medical centre.

Note to Physician: Treat symptomatically. If ingested, irrigate the stomach using activated charcoal. Can cause corneal burns.

SECTION 5 FIRE FIGHTING MEASURES

Hazchem Code; 2YE

Extinguishing media: Alcohol resistant foam is the preferred firefighting medium, but if it is not available, fine water spray or water fog can be used.

Unsuitable Extinguishing Media: Solid water jet/stream may scatter and spread the fire.

Specific Hazards arising from the Chemical: Highly flammable liquid. May form flammable vapour mixtures with air. Vapour may travel a considerable distance to source of ignition and flash back.

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Special Protective Equipment and Precautions for Fire-Fighters: Heating can cause expansion or decomposition of the material, which can lead to the containers exploding. If safe to do so, remove containers from the path of fire. Keep containers cool with water spray. On burning will emit toxic fumes, including those of oxides of carbon. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion. Dike and collect water used to fight fire. Keep people away from and upwind of fire.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Emergency Procedures/Environmental Precautions: Shut off all possible sources of ignition. Clear area of unprotected personnel. If contamination of sewers or waterways has occurred advise local emergency services.

Personal Precautions/Protective Equipment/Methods and Materials for Containment and Cleaning Up: Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contact and breathing in vapours. Work up wind or increase ventilation. Contain – prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal.

SECTION 7 HANDLING & STORAGE

Precautions for Safe Handling: Avoid skin and eye contact and breathing in vapour. All potential sources of ignition (open flames, pilot lights, furnaces, spark producing switches and electrical equipment etc.) must be eliminated both in and near the work area. Do NOT smoke. Take precautionary measures against static discharges. Do not use compressed air for filling, discharging or handling operations.

Conditions for Safe Storage, including any Incompatibilities: Store in a cool, dry, well-ventilated place. Store below 38°C. Store away from sources of heat or ignition. Store away from incompatible materials as listed in this SDS. Keep containers closed when not in use – check regularly for leaks. Use in a well ventilated area using a solvent compatible respirator as required.

SECTION 8 EXPOSURE CONTROLS & PERSONAL PROTECTION

Exposure standards: Propyl Alcohol: 8hr TWA = 492 mg/m³ (200ppm), 15 min STEL = 614 mg/m³ (250ppm).

Engineering controls: Ensure ventilation is adequate to maintain air concentrations below Workplace Exposure Standards. Vapour heavier than air – prevent concentration in hollows or sumps. Do NOT enter confined spaces where vapour may have collected. Keep containers closed when not in use. If in the handling and application of this material, safe exposure levels could be exceeded, the use of engineering controls such as local exhaust ventilation must be considered and results documented. If achieving safe exposure levels does not require engineering controls, then a detailed and documented risk assessment using the relevant Personal Protective Equipment (PPE) as a basis must be carried out to determine the minimum PPE requirements.

Personal protective equipment: The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors. Wear overalls, chemical goggles and impervious gloves. Use with adequate ventilation. If determined by a risk assessment an inhalation risk exists, wear an organic vapour respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

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SECTION 9 PHYSICAL & CHEMICAL PROPERTIES

Physical State	Liquid
Colour	Colourless
Odour	Alcohol Like
Odour Threshold	<0.07-100 mg/m ³
Molecular Formula	CH ₃ CH ₂ CH ₂ OH
Solubility	Miscible with water
Specific Gravity	0.8036 @ 20°C
Relative Vapour Density (air = 1)	2.1 @ 20°C
Vapour Pressure (20°C)	26 hPa
Flash Point (°C)	22-24
Flammability Limits (%)	2.1-13.5
Autoignition Temperature (°C)	395
Boiling Point/Range (°C)	97
pH	7 (100 g/L in water @ 20°C)
Viscosity	2.21 mPa.s @ 20°C
Evaporation Rate	1.0 (n-Butyl Acetate = 1)
Freezing Point/Range (°C)	< -90 (pour point)

SECTION 10 STABILITY & REACTIVITY

Stability: Stable under normal conditions.

Hazardous decomposition products: Oxides of carbon.

Hazardous polymerization: Will not occur.

Incompatibles: Incompatible with strong acids, aluminum, lead, strong oxidizing agents.

Conditions to avoid: Avoid exposure to heat, sources of ignition, and open flame.

SECTION 11 TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Ingestion: Swallowing can result in nausea, vomiting and central nervous system depression. If the victim is showing signs of central nervous system depression (like those of drunkenness) there is greater likelihood of the patient breathing in vomit and causing damage to the lungs.

Eye Contact: A severe eye irritant. Contamination of eyes can result in permanent injury.

Skin Contact: Contact with skin may result in irritation. Will have a degreasing action on the skin. Repeated or prolonged skin contact may lead to irritant contact dermatitis. Repeated exposure may cause skin dryness or cracking.

Inhalation: Breathing in vapour may produce respiratory irritation. Breathing in vapour can result in headaches, dizziness, drowsiness, and possible nausea. Breathing in high concentrations can produce central nervous system depression, which can lead to loss of co-ordination, impaired judgment and if exposure is prolonged, unconsciousness.

Acute Toxicity: Oral LD₅₀ (rat): 5400 mg/kg (male). Dermal LD₅₀ (rabbit): 4032 mg/kg. Inhalation LC₅₀ (rat): >33.8 mg/L/4h

Skin Corrosion/Irritation: Non-irritant (rabbit).

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Serious Eye Damage/Irritation: Severe irritant (rabbit).

Respiratory or Skin Sensitization: Not a skin sensitizer (guinea pig).

Chronic Effects: Available evidence from animal studies indicate that repeated or prolonged exposure to this material could result in effects on the liver, and decrease body weight.

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity (Aquatic & Terrestrial): 48hr LC50 (fish): 1000 mg/L (Gammarus pulex). 96hr LC50 (fathead minnow): 4555 mg/L. Avoid contaminating waterways.

SECTION 13 DISPOSAL CONSIDERATIONS

Disposal Methods: Refer to local Waste Management Authority. Dispose of contents and containers in accordance with local, regional, national and international regulations.

SECTION 14 TRANSPORT INFORMATION

UN Number: 1274
Proper Shipping name: n-PROPANOL (PROPYL ALCOHOL, NORMAL)
Dangerous Goods Class: 3 – Flammable Liquid
Packing group: II
Hazchem Code: 2YE

SECTIONJ 15 REGULATORY INFORMATION

EPA Approval number: HSR001215
HSNO Classifications: 3.1B, 6.1D, 6.4A

SECTION 16 OTHER INFORMATION

End of SDS.